

Title (en)
ELECTRICAL MACHINE HAVING A SEGMENTED STATOR

Title (de)
ELEKTRISCHE MASCHINE MIT EINEM SEGMENTIERTEN STATOR

Title (fr)
MACHINE ÉLECTRIQUE COMPORTANT UN STATOR

Publication
EP 3811496 B1 20220629 (EN)

Application
EP 19795134 A 20191018

Priority
• EP 18203388 A 20181030
• EP 2019078411 W 20191018

Abstract (en)
[origin: EP3648306A1] It is described a stator segment (100) for the stator (11) or the rotor (12) of an electrical machine (10) including a segment body (22) circumferentially extending about a longitudinal axis (Y) of the stator segment (100) between two circumferential ends (23). The segment body (22) includes:- a plurality of teeth (15, 16) protruding according to a radial direction orthogonal to the longitudinal axis (Y) from a yoke (13) of the segment body (22) to respective tooth radial ends (35, 36), the plurality of teeth (15, 16) being circumferentially distributed between two end teeth (15) of the plurality of teeth (15, 16), the plurality of teeth (15, 16) comprising at least one intermediate tooth (16) circumferentially comprised between the end teeth (15),- a plurality of slots (17, 18), circumferentially interposed between the teeth (15, 16) of the stator (11).At least one of the two end teeth (15) includes a circumferential protrusion (45) at the respective tooth radial end (35), the circumferential protrusion (45) protruding from the respective side face (25) towards the respective circumferential end (23).

IPC 8 full level
H02K 1/14 (2006.01); **H02K 1/16** (2006.01)

CPC (source: EP US)
H02K 1/148 (2013.01 - EP US); **H02K 1/165** (2013.01 - EP US); **H02K 1/265** (2013.01 - US); **H02K 3/28** (2013.01 - US);
H02K 2213/09 (2013.01 - US); **H02K 2213/12** (2013.01 - EP US)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 3648306 A1 20200506; CN 112913115 A 20210604; DK 3811496 T3 20220801; EP 3811496 A1 20210428; EP 3811496 B1 20220629;
US 11888348 B2 20240130; US 2021359558 A1 20211118; WO 2020088956 A1 20200507

DOCDB simple family (application)
EP 18203388 A 20181030; CN 201980072510 A 20191018; DK 19795134 T 20191018; EP 19795134 A 20191018; EP 2019078411 W 20191018;
US 201917284891 A 20191018